

Claims

What is claimed:

1. A service delivery platform, comprising:
 - a gateway having connectivity to a communication network;
 - a mobile portal having connectivity to the gateway;
 - a mobile server accessible by the mobile portal; and
 - an application server having a web services interface connecting the mobile portal to the mobile server, wherein the web services interface includes access to the mobile portal and to an associated database structure containing user profile data, wherein the web services interface can register user profile data for services with the mobile server.
2. The platform of claim 1, wherein the web services interface is discoverable and invokeable as a stand-alone web service.
3. The platform of claim 1, wherein the application server having the web services interface includes a set of business logic instructions to manage access and control of the user profile data.
4. The platform of claim 3, wherein the application server having the web service interface uses a web services descriptor language (WSDL) document to register user profile data with the mobile server.
5. The platform of claim 4, wherein the WSDL document is automatically generated from a Java Integrated Development Environment (IDE).
6. The platform of claim 3, wherein the set of business logic instructions can integrate with business rule processing engines external to the platform.

7. The platform of claim 3, wherein the application server having the web services interface includes program instruction which can execute to access the mobile server using simple object access protocol (SOAP).
8. The platform of claim 3, wherein the application server having the web services interface includes program instruction which can execute to access the mobile server using Java Messaging Service (JMS).
9. The platform of claim 3, wherein the application server having the web services interface includes program instruction which can execute to access the mobile server using a messaging middleware application.
10. The platform of claim 3, wherein the application server having the web services interface includes program instruction which can execute to access the mobile server within a common object request broker architecture (CORBA).
11. The platform of claim 3, wherein the application server having the web services interface includes a middle tier cache to hold retrieved data from the associated database structure.
12. The platform of claim 11, wherein the application server having the web services interface further includes program instructions to provide session management and to clear the middle tier cache.
13. The platform of claim 3, wherein the set of business logic instructions control retrieval, update, and deletion of the user profile data.
14. The platform of claim 3, further including instructions to log and debug.
15. The platform of claim 14, wherein the instructions to log include instructions to:
 - log updates to the associated database structure;
 - log who performed updates;

log when updates were performed;
log what updates were implemented;
log who made requests into the platform;
log when requests were made; and
log what information was requested.

16. The platform of claim 3, wherein the business logic instructions include a series of Java classes to implement user profile services.
17. The platform of claim 1, wherein the mobile server includes a universal business registry of web services.
18. The platform of claim 1, wherein the application server having the web services interface and the associated database structure containing user profile data can be accessed directly by the gateway.
19. The platform of claim 1, wherein the application server having the web services interface uses templates to define profile elements in the user profile data.
20. The platform of claim 19, wherein the templates are used by program instructions to register the user profile data with the mobile server for application processing.
21. The platform of claim 19, wherein the profile elements are selected from the group of:

- a user ID;
- a group ID;
- a user name;
- a preferred language;
- a status;
- a first name;
- a last name;

- a last login timestamp;
- a street;
- a street number;
- a zip;
- a city;
- a country;
- a gender;
- a mobile subscription;
- a mobile subscriber ISDN;
- a current device location; and
- an email address.

22. The platform of claim 1, wherein the application server having the web services interface is accessible across multiple network applications.

23. The platform of claim 1, wherein the application server having the web service interface includes program instructions which can execute to register user profile data in the associated database with a business registry of the mobile server and with a registry on one or more third party servers.

24. A mobile service delivery platform, comprising:

- a gateway having connectivity to a communication network;
- a mobile portal having connectivity to the gateway;
- a mobile server accessible by the mobile portal; and
- an application server having a web services interface to connect the mobile portal to the mobile server, the application server including a set of business rules associated with accessing an associated database structure containing a compilation of user profile data from multiple network sources, wherein the business rules include executable instructions to make the user profile data accessible across multiple network applications.

25. A method for user profile data, comprising:

providing business rules to an application server, the business rules associated with accessing user profile data to make a user profile service database accessible across multiple network applications;

applying the business rules in response to a request; and

accessing the user profile service database when the request has been authorized by the applied business rules.

26. The method of claim 25, further including receiving an authorized request from a user of a mobile device to update the user profile data.

27. The method of claim 25, further including receiving a request from a mobile device for a service application.

28. The method of claim 25, further including the application server receiving identification and location information associated with a mobile device, wherein the application server provides a service application to the mobile device based on the identification and the location information.

29. The method of claim 25, further including receiving a request from a third party entity to update the user profile data.

30. The method of claim 25, further including providing a third party service application to a mobile device based on the user profile data.

31. The method of claim 25, further including the application server collecting user profile data from a number of third party network databases to populate the user profile service database.

32. A method for user profile service, comprising:

collecting user profile data from multiple network sources in a localized database;

providing business rules to an application server to manage access to the collected user profile data in the database; and

allowing different network service applications to access the collected user profile data as determined by the business rules.

33. A computer readable medium having instructions for causing a device to perform a method, comprising:

collecting user profile data from multiple network sources in a localized database;

providing business rules to an application server to manage access to the collected user profile data in the database; and

allowing different network service applications to access the collected user profile data as determined by the business rules.

34. A mobile services delivery platform, comprising:

an application server having a web services interface and accessible by a mobile network;

means for storage and access of user profile data on a user profile service database in connection with the web service interface; and

means for enabling applications and/or component parts of applications to access profile elements in the user profile data and be distributed over the mobile network in connection with the web service interface.

35. The platform of claim 34, wherein the means for storage and access includes a set of computer executable instructions.

36. The platform of claim 34, wherein the means for enabling applications and/or component parts of applications to access profile elements includes a set of computer executable instructions.

37. The platform of claim 34, wherein the application server includes program instructions to deploy, develop, administer, and integrate user profile data with one or more network applications.

38. The platform of claim 34, wherein the application server includes program instructions to manage:
 - user demographic information;
 - user privilege, access and rights information; and
 - user service registration information.
39. The platform of claim 34, wherein a profile element in the user profile data indicates an interest in soccer.
40. The platform of claim 34, wherein a profile element in the user profile data indicates an interest in Chinese cuisine and a disinterest in Italian cuisine.
41. The platform of claim 34, wherein the application server is accessible by wireless voice network.
42. The platform of claim 34, wherein the application server is accessible by a public wireless local area network (PwLAN).